



PHILIPS

PHILIPS TECHNICAL TRAINING

BP PLASMA PANEL REPAIR GUIDE USING THE VERSION 4 PDP PANEL

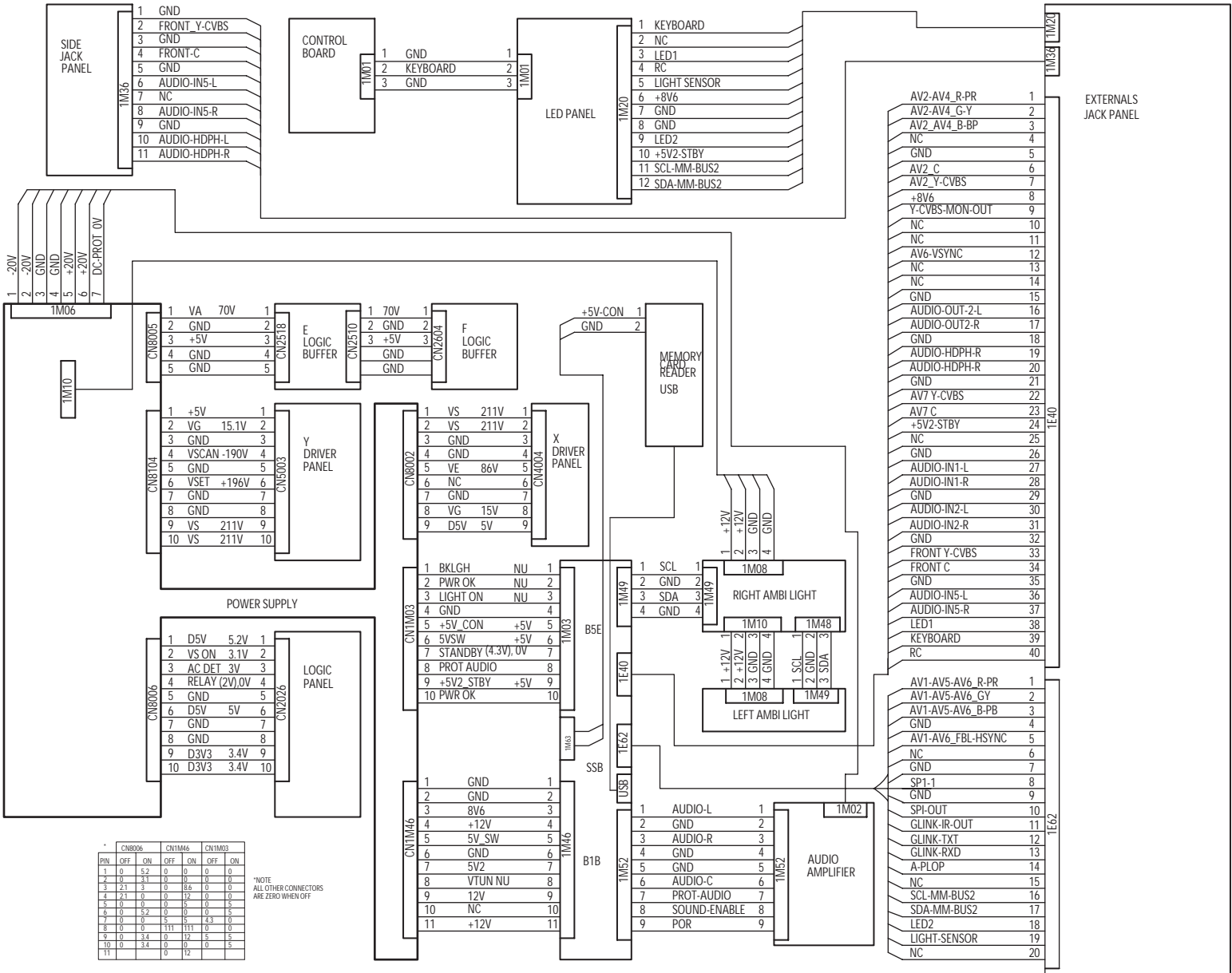
MODELS COVERED

42HF7543/37
42PF7320A/37
42PF9630A/37

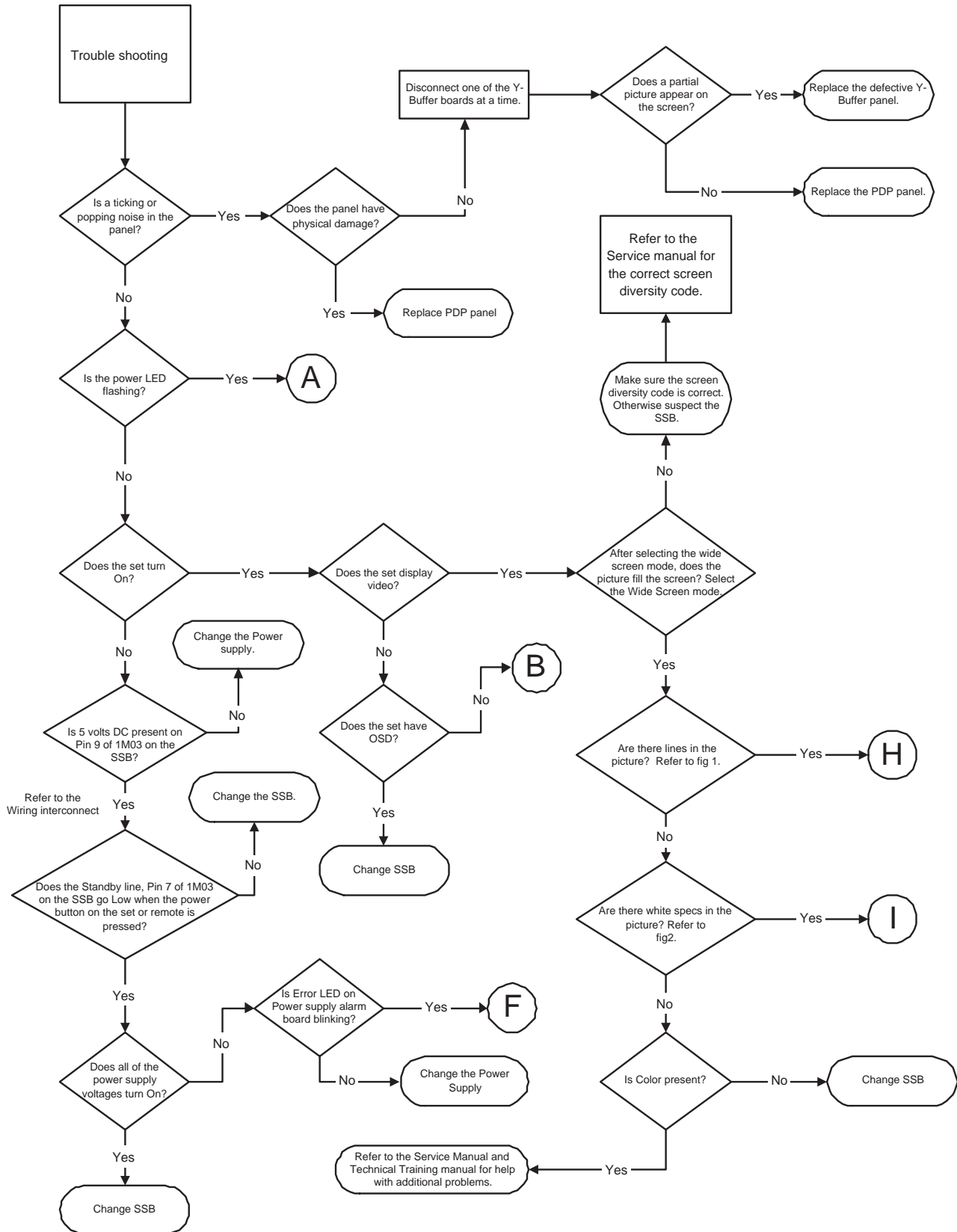
Philips Consumer Electronics North America
64 Perimeter Center East
Atlanta, GA 30346

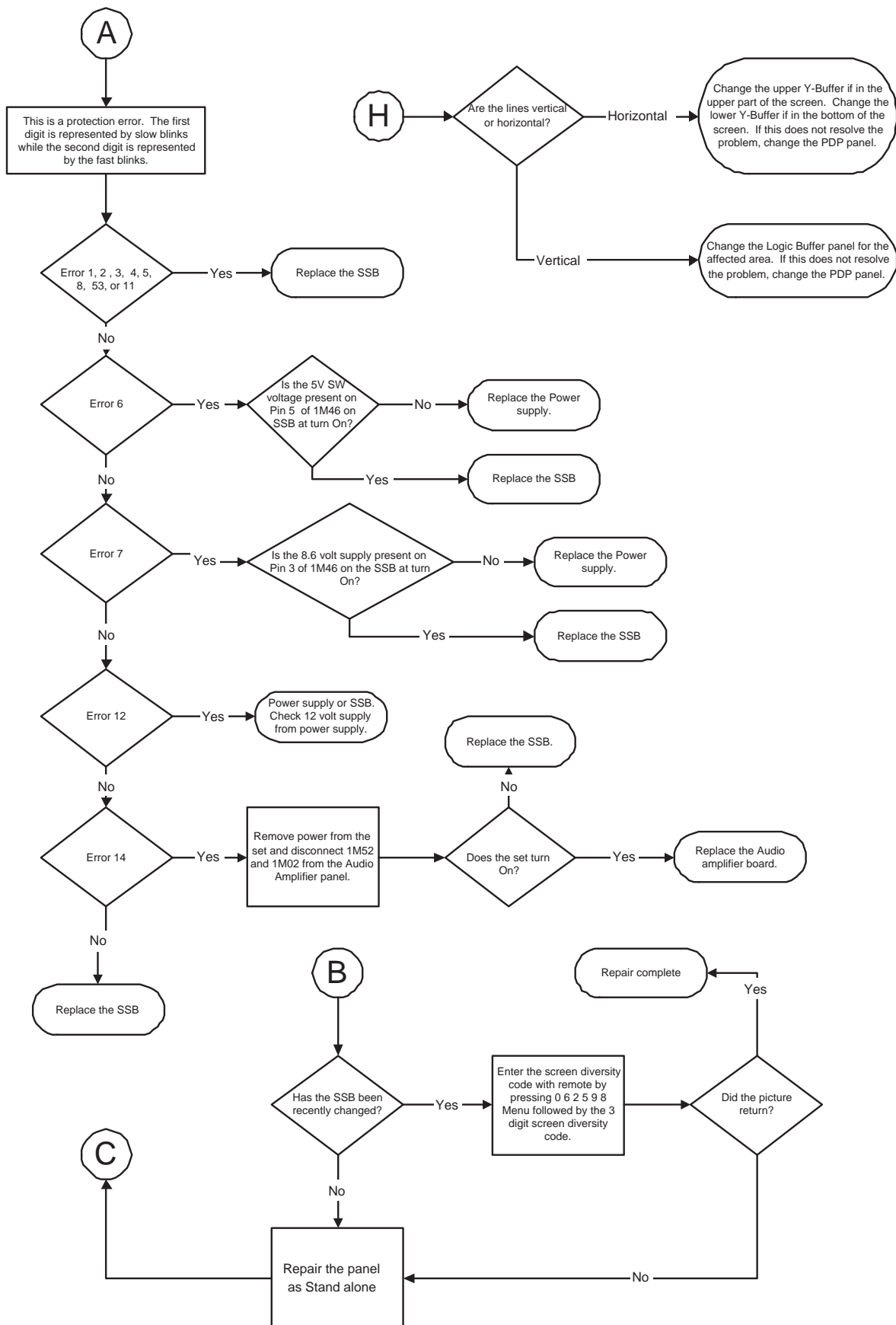
MM102306 REV080607

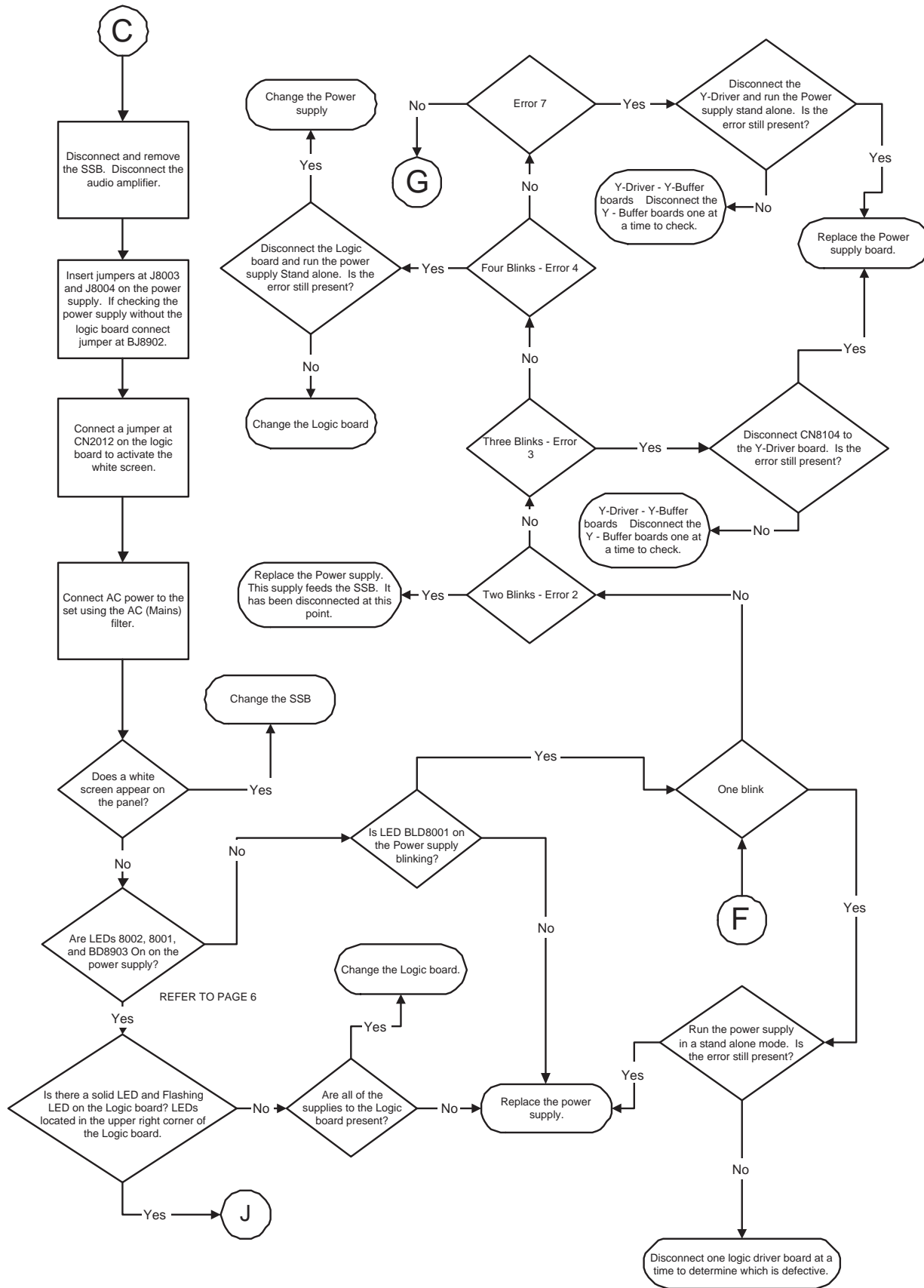
BP CHASSIS WIRING INTERCONNECT USING THE V4 PANEL



Refer to the wiring interconnect diagram for test point locations.







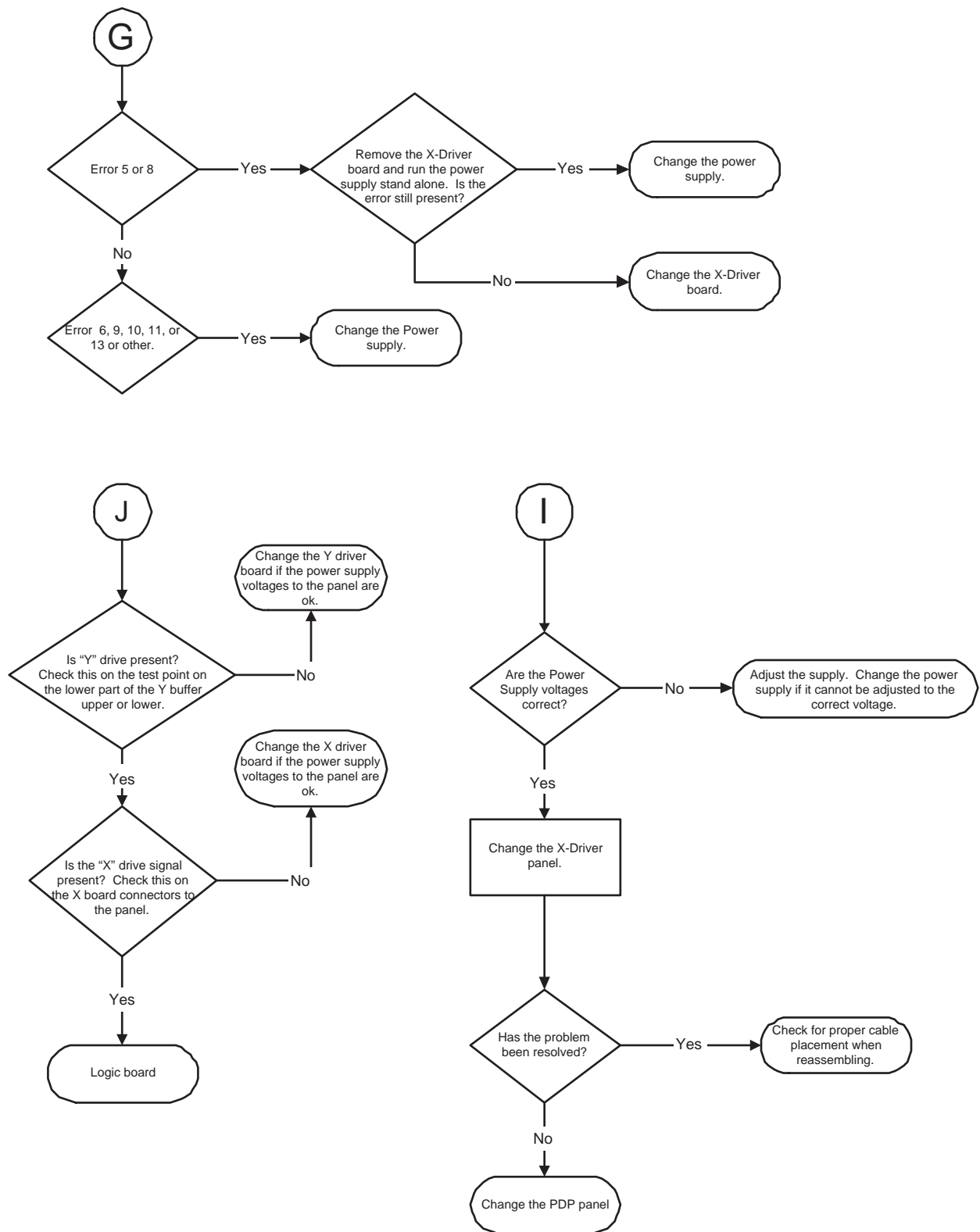
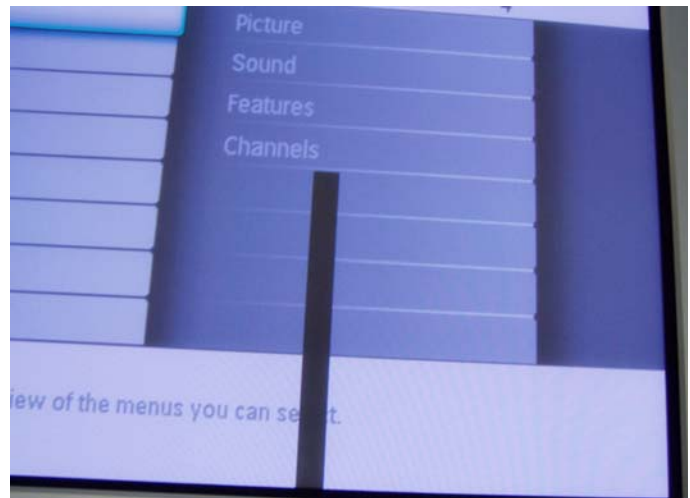


Figure 1 - line in picture - Defective TCP



Disassembly tips

Connector removal of the Y-Buffer boards.

Gently pull up on each end of the panel ribbon connectors to the Y-Buffer as not to create stress on the ribbon connector.



CONNECTOR BETWEEN Y
UPPER AND LOWER ON
42HDV4 PANEL

42HDV4 PANEL

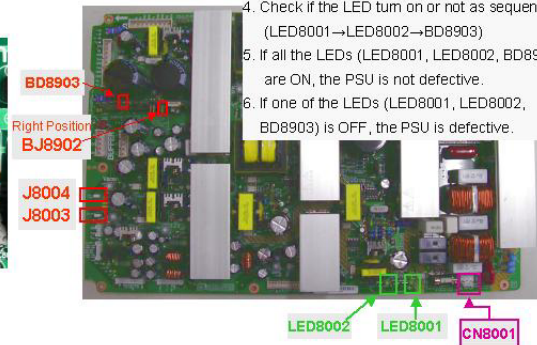


Checking the V4 panel power supply

1. To switch on the power supply while on the plasma panel with the Logic board connected, place jumpers on J8003 and J8004. To switch on the power supply outside the plasma panel, insert an additional jumper on BJ8902.
2. If LED8001 and LED8002 does not switch on, replace the power supply.

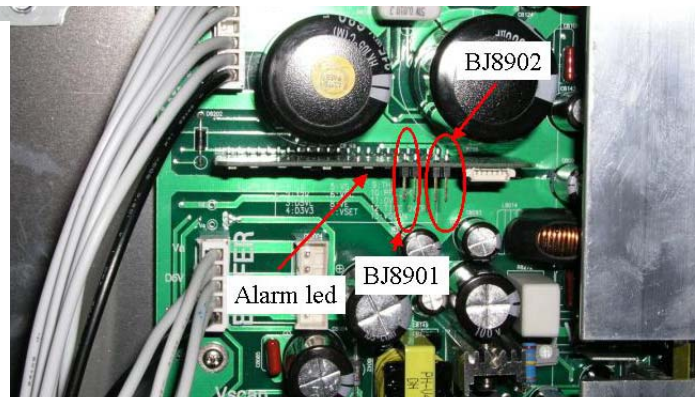
Protection & LED indication for Fault Finding

1. Check Input Voltage Range of the defect occurrence area is between 100V AC ~ 240V AC
2. Insert Jumper at J8003, J8004 BJ8902
3. Insert Power (AC) at CN8001
4. Check if the LED turn on or not as sequence. (LED8001→LED8002→BD8903)
5. If all the LEDs (LED8001, LED8002, BD8903) are ON, the PSU is not defective.
6. If one of the LEDs (LED8001, LED8002, BD8903) is OFF, the PSU is defective.



3. The Alarm LED will blink if one of the supplies is missing or is overloaded on the power supply. Refer to the troubleshooting flow chart.

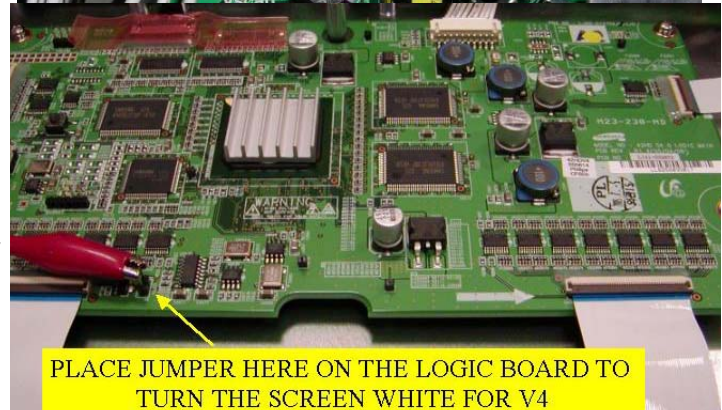
4. Placing a jumper on BJ8901 will disable the protection circuits in the power supply. This can cause additional damage.



White screen switch On

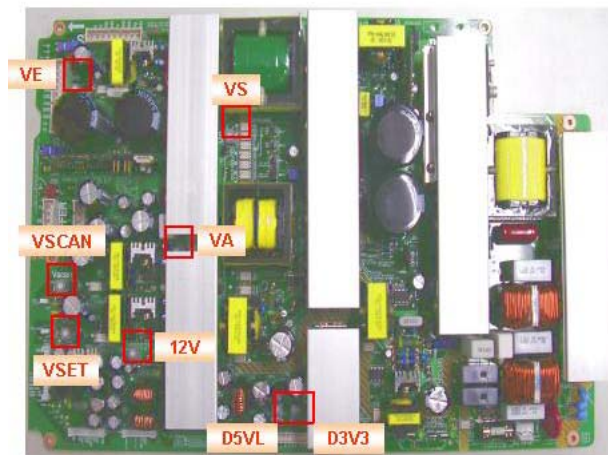
Place a jumper on the Logic board at the location shown.

Place the jumper before applying AC power to the panel.



Power Supply adjustment locations

V4 power supply adjustment locations. Refer to the power set label on the panel for the correct voltages.



After changing PSU, Check and Adjust the voltage of 8 points.

If turn right, voltage up

If turn left, voltage down

1.VS

2.VA

3.VSET

4.VSCAN

5.VE

6.D3V3

7.D5V

8.12VL

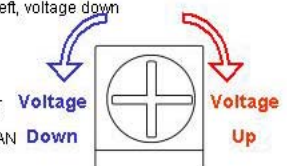


Figure 2 - White specs in picture

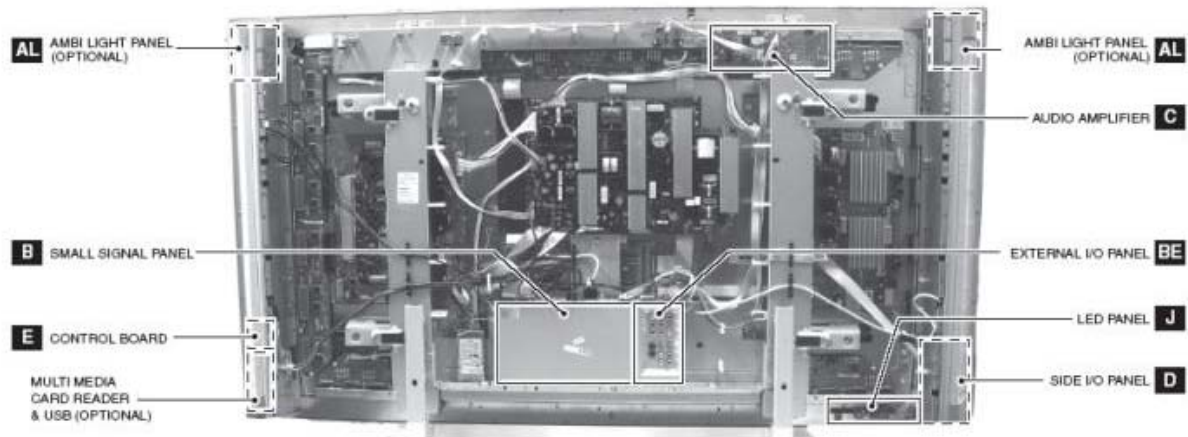
Power supply misadjusted
or

Defective X driver board

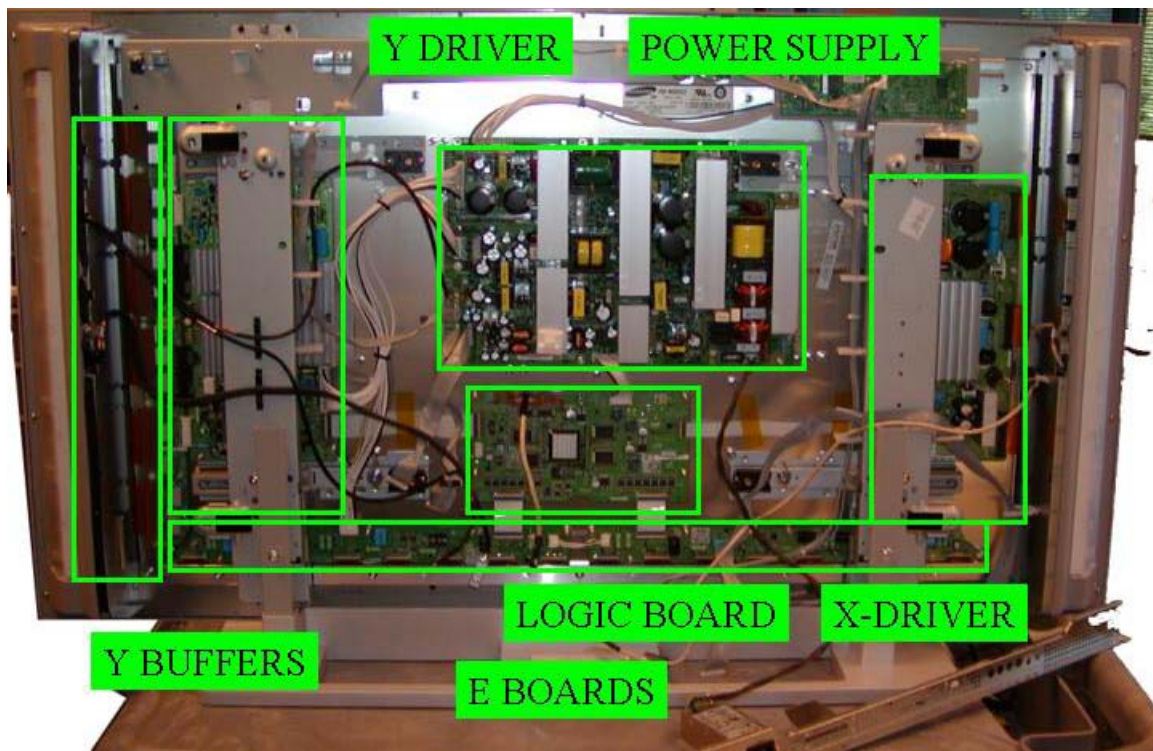
or

Y driver board defective or misadjusted





MODULE LOCATIONS



HDV4 PLASMA PANEL BOARD LOCATIONS

